



Making the Linkages Through the Use of Environmental Indicators May 17-20, 2004 • Kansas City, MO

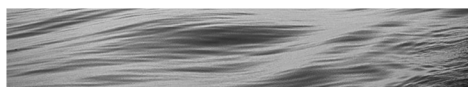
Agenda

Monday, May 17, 2004

- 5:00 pm – 7:30 pm **REGISTRATION**
- 5:30 pm – 7:30 pm **POSTER SESSION** - Center Court Fountain

Tuesday, May 18, 2004

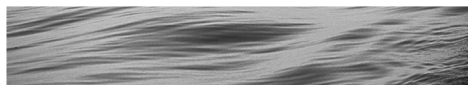
- 7:30 am – 6:00 pm **Registration**
PLENARY SESSION - Morelia Room
- 8:00 am – 8:30 am **Welcome**
Brenda Groskinsky, Science Liaison, U.S. EPA, Region 7 - Workshop Chair
Antoine Provost, Chair, Regional Tribal Operations
Ron Hammerschmit, Director, Kansas Department of Health and Environment
- 8:30 am – 9:30 am **Indicator Soup - NAPAP, EMAP, GPRA, and Salt to Taste**
What is an indicator and why do we use them?
What are the drivers behind the use of environmental indicators?
Rick Linthurst, Ph.D., Senior Science Advisor, Office of Inspector General, U.S. EPA
- 9:30 am – 10:30 am **Challenges of Using Environmental Indicators for Performance Measurement**
Jay Messer, Ph.D., Senior Science Advisor, National Center for Environmental Assessment,
Office of Research and Development, U.S. EPA
- 10:30 am – 11:00 am **BREAK**
PLENARY SESSION - Morelia Room
- 11:00 am – 12:00 pm **Indicators: The Basic Model**
*Sustainable Development and Management: '92 International Rio Conference and
International World Summit on Sustainable Development - Human Health, Social and
Economic Indicators*
Ted Heintz, President's Council for Environmental Quality
- 12:00 pm – 1:00 pm **LUNCH** - On Your Own
- 1:00 pm – 2:00 pm **The State of the Nation's Ecosystem: Ecosystem and Natural Resource Indicators**
Kent Cavender-Bares, Heinz Center



- 2:00 pm – 3:00 pm **EPA Report on the Environment**
Michael Flynn, Deputy Director, Office of Information Analysis and Access, Office of Environmental Information, U.S. EPA
- 3:00 pm – 3:30 pm **BREAK**
- 3:30 pm – 4:30 pm **Environmental Measures**
Ian Dutton, Director, Conservation Measures Group, The Nature Conservancy
- 4:30 pm – 5:00 pm **A Broad Overview of Tribal Perspective on Environmental Concerns and Performance Indicators**
Virgil Masayesva, Director, Institute for Tribal Environmental Professionals
- 5:00 pm – 5:30 pm **Preview of Wednesday Sessions**
Brenda Groskinsky, R7 Science Liaison, U.S. EPA
Patti Tyler, R8 Science Liaison, U.S. EPA
- 6:00 pm **Social Hour**

Wednesday, May 19, 2004

- 7:15 am – 4:30 pm **REGISTRATION**
- 7:15 am – 8:00 am **INDICATOR TRAINING** - Plaza Bar
(Bring your breakfast)
- Indicator Fundamentals**
James Bernard, Environmental Management Consulting
- 8:00 am – 8:30 am **Session Charges**
Brenda Groskinsky, R7 Science Liaison, U.S. EPA - Morelia I
Patti Tyler, R8 Science Liaison, U.S. EPA - Morelia II & III
- TOPIC SESSIONS** - Morelia Room
- 8:30 am – 10:00 am **TRACK 1** - Morelia I
- How Do We Utilize Indicators at Different Scales?**
- Landscape to Genetics to Temporal***
Moderator – Jay Messer, Ph.D., Senior Science Advisor, National Center for Environmental Assessment, U.S. EPA



Molecular Indicators of Genetic Diversity

Mark Bagley, Ph.D., Molecular Ecology Research Branch, National Exposure Research Laboratory, U.S. EPA

Hierarchy, Scale, and the Goldilocks Principle: Getting Indicators Just Right

Jay Messer Ph.D., Senior Science Advisor, National Center for Environmental Assessment, U.S. EPA

Indicators and Questions for Vulnerability Assessments at Regional to Local Scales

Elizabeth R. Smith, Ph.D., Director, Regional Vulnerability Assessment Program, National Exposure Research Laboratory, U.S. EPA

8:30 am – 10:00 am **TRACK 2 - Morelia II & III**

What Have Been the Human Health Impacts Resulting From the Use of Indicators?

Moderator – Patricia Murphy, Ph.D., Environmental Health Scientist, Office of Research and Development, U.S. EPA

Groundwater Uranium and Cancer in New Jersey

Jerry Fagliano, New Jersey Department of Health

Using Tailings as Agriculture Lime in St. Francis County, Missouri: A First Look

Jeff Patridge, GIS Analyst, Office of Surveillance, Missouri Department of Health and Senior Services

National Environmental Public Health Tracking Presentation: Use of Indicators

Amanda Niskar, Environmental Tracking Branch, Center for Disease Control

10:00 am – 10:30 am **BREAK**

10:30 am – 12:00 pm **TRACK 1 - Morelia I**

How Can We Use Existing Performance Measures to Convey Environmental Accountability?

Moderator – Rick Durbrow, Program Analyst, U.S. EPA, Region 4

Roundtable Discussion Speakers:

Rick Durbrow, U.S. EPA, Region 4

Joseph Greenblott, Office of the Chief Financial Officer, U.S. EPA

Marjorie Jones, Office of Water, U.S. EPA

Bruce Jones, Ph.D., Senior Scientist, National Exposure Research Laboratory, U.S. EPA



10:30 am – 12:00 pm **TRACK 2** - Morelia II & III

Is There a Story That We Can Highlight?

Moderator – John Perrecone, Ecosystem Team Manager, U.S. EPA, Region 5

Current Indicator Process at Work: The State of the Lakes Ecosystem Conference (SOLEC) How Did SOLEC Select Meaningful Indicators?

What Monitoring/Assessment Data is Needed to Implement the Indicators?

How Do You Report Indicators in a Meaningful Way to Show Environmental Improvements?

Paul Bertram, U.S. Lead for Indicators Project, Great Lakes National Program Office, U.S. EPA

12:00 pm – 1:00 pm **LUNCH** - On Your Own

1:00 pm – 2:30 pm **TRACK 1** - Morelia I

Can Indicators Be Effective On-The-Ground Tools for Local Governments As Well As Effective Tools for Communication With the Public?

Moderator - Joe Francis, Associate Director, Nebraska Department of Environmental Quality

Panel:

Bruce Stein, V.P. Programs, NatureServe
Barbara Sheen-Todd, Commissioner, Pinellas Board of County Supervisors (Florida)
Randy Johnson, Commissioner, Hennepin County Commissioners (Minnesota)
W. Cecil Steward, President, Joslyn Castle Institute for Sustainable Communities (Nebraska)

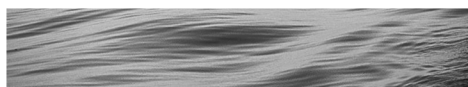
The panel will examine how indicators can be beneficially used at the local level in their every day decisions.

1:00 pm – 2:30 pm **TRACK 2** - Morelia I

What are the Analytical Tools and Models Used to Help Develop Environmental Indicators and How Are They Being Used?

An Interactive, User Friendly, Discussion of the Available Technology and Practical Lessons in Terms of Applying These Tools Towards Developing, Evaluating, and Tracking Indicators

Moderator - Cynthia Curtis, U.S. EPA, Region 5



***Applying Web Services and Creating Distributed Databases for Real-Time Indicators:
The NEISEGEI Approach***

Brook Hemming, Ph.D., Physical Scientist, National Center for Environmental Assessment, U.S. EPA

Snythesizing Multiple Environmental Indicators: Reva's Environmental Decision Toolkit

Elizabeth R. Smith, Ph.D., Senior Science Advisor, National Center for Environmental Assessment, U.S. EPA

William A. Jenkins, Jr. - Director, Landscape and Watershed Analysis Division, Maryland Department of Natural Resources

Ming Chang, Office of Information Analysis, U.S. EPA

2:30 pm – 3:00 pm

BREAK

3:00 pm – 4:30 pm

TRACK 1 - Morelia II & III

How Has the Use of Thresholds Allowed Us to Measure Success?

Air, Children's Health, and Other Specific Programs

Moderator - Mike Hadrick, Senior Advisor for Planning, Office of Air & Radiation, U.S. EPA

Session Overview and Outlook - Air Quality Thresholds

Mike Hadrick, Senior Advisor for Planning, Office of Air & Radiation, U.S. EPA

Use of Regulatory Standards and Thresholds in Constructing Environmental Health Indicators: Advantages and Disadvantages

Tracey Woodruff, Ph.D., Senior Scientist, National Center for Environmental Economics, U.S. EPA

Spatial and Temporal Distribution of Methylmercury in Fish Tissue in Region 7

Michael Jay, Environmental Scientist, U.S. EPA, Region 7

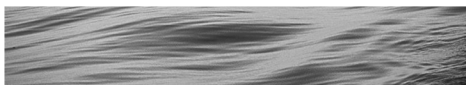
3:00 pm – 4:30 pm

TRACK 2 - Morelia II & III

What Indicators Can Be Used at the Watershed Level to Measure the Success or Failure of "Landscape" Best Management Practices?

Three Case Studies

Moderator - Bruce Jones Ph.D., Senior Scientist, Environmental Sciences Division, National Exposure Research Laboratory, U.S. EPA



Approaches to Prioritize Networks of Greenspace: The Maryland Green Infrastructure Experience

William A. Jenkins, Jr. - Director, Landscape and Watershed Analysis Division, Maryland Department of Natural Resources

Experimental Watershed - South Fork, IA

Mike Burkart, Hydrologist, National Soil Tilth Lab, Agriculture Research Service, USDA

Comprehensive Research and Management of Impervious Surfaces Impacts on Watershed Hydrology

Bill Schuster, Ph.D., Research Scientist, National Risk Management Research Laboratory, U.S. EPA

Thursday, May 20, 2004

7:30 am – 12:00 pm **REGISTRATION**

7:30 am – 8:30 am **INDICATOR TRAINING** - Plaza Bar
(Bring your breakfast)
James Bernard, Environmental Management Consulting

8:30 am – 9:30 am **PREVIOUS DAY REVIEW & CURRENT DAY OVERVIEW**
Brenda Groskinsky, Workshop Chair, R7 Science Liaison, U.S. EPA - Morelia I
Patti Tyler, R8 Science Liaison, U.S. EPA - Morelia II & III

9:30 am – 10:00 am **BREAK**

TOPIC SESSIONS

10:00 am – 11:30 am **TRACK 1** - Morelia I

What Ecosystem Indicators Do We Need?

Moderator - Karl Hermann, Senior Analyst, U.S. EPA, Region 8

Indicators for Stream Ecology

Roger Blair, Ph.D., Branch Chief, National Health and Environmental Effects Research Laboratory, Western Ecology Division, Office of Research and Development, U.S. EPA

Landscape Level Indicators

Douglas M. Muchoney, Ph.D., Program Coordinator, Geographic Analysis and Monitoring, U.S. Geological Survey

Indicators of Sustainable Rangelands

Lori Hiding, Program Manager, Sustainable Biosphere Initiative/Science Programs Office, Ecological Society of America



10:00 am – 11:30 am **TRACK 2** - Morelia II & III

Social Indicators - How Can They Be Used for Environmental Decision Making?

Moderator - Patti Tyler, R8 Science Liaison, U.S. EPA

The Importance of Environmental Indicators in Indian Country

Margaret Cook, Senior Environmental Planner and Policy Analyst, Department of Environmental Quality, Gila River Indian Community

Children's Health Indicators

Tracey Woodruff, Ph.D., Senior Scientist, National Center for Environmental Economics, U.S. EPA

The Central Texas Sustainability Indicator Project: History, Practice and Prospects

Robert Patterson, Ph.D., Director of Graduate Program in Community and Regional Planning, The University of Texas at Austin

12:00 pm – 1:00 pm **LUNCH** - Key Note Address

Measuring the Progress of Metropolitan Kansas City

Frank Lenk, Director of Research Services, Mid America Regional Council

1:30 pm – 3:00 pm **TRACK 1** - Morelia I

How Are Environmental Indicators Going to be Used to Track Remediation Progress for the Solid Waste Program?

Moderator - Patti Tyler, R8 Science Liaison, U.S. EPA

Overview of Environmental Indicators for EPA Waste Management and Cleanup Programs

Eric Burman, Senior Planning Analyst, Office of Solid Waste and Emergency Response, U.S. EPA

Application of Ecological Environmental Indicators at RCRA and Voluntary Corrective Action Facilities

Steve Wharton, Risk Assessor, R8, U.S. EPA

Indicators and Endpoints – Making the Connection

Venessa Madden, Risk Assessor, R7, U.S. EPA



1:30 pm – 3:00 pm

TRACK 2 - Morelia II & III

What Are Appropriate Thresholds for Ecosystem Indicators?

Moderator - Karl Hermann, Senior Analyst, R8, U.S. EPA,
Ecosystems Protection Program

Use of Thresholds in Landscape Assessments

Bruce Jones, Ph.D., Senior Scientist
Environmental Sciences Division, National Exposure Research Laboratory, U.S. EPA

Panel Discussion on Reference Sites, Predictive Models, and Tolerance Values

Roger Blair, Ph.D., Branch Chief, National Health and Environmental Effects
Research Laboratory, Western Ecology Division, Office of Research and
Development, U.S. EPA

Don Huggins, Director
Central Plains Center for Bioassessment
University of Kansas

Karl Hermann, Senior Analyst Ecosystems Protection Program, R8, U.S. EPA

3:00 pm – 3:30 pm

BREAK

3:30 pm – 4:30 pm

Workshop Wrap-Up and Next Steps - Morelia Room
Workshop Moderators